

Surf
A1

WHAT IS CLAIMED IS:

1. A machined retainer of rolling bearing made of a material wherein crystals of intermetallic compound are finely dispersed in a base material comprising a Cu alloy.

5

2. The retainer as set forth in claim 1, wherein the Cu alloy contains Pb 0.4 wt% or lower.



3. The retainer as set forth in claim 1, wherein said retainer has a surface hardness of which is 110 or higher in Vickers hardness (HV).

15

4. The retainer as set forth in claim 2, wherein said retainer has a surface hardness of which is 110 or higher in Vickers hardness (HV).

20

6. The retainer as set forth in claim 2, wherein the content percent of the intermetallic compound is 5 to 30% in an area ratio.

25

7. The retainer as set forth in claim 3, wherein the

content percent of the intermetallic compound is 5 to 30% in an area ratio.

8 The retainer as set forth in claim 4 wherein the
5 content percent of the intermetallic compound is 5 to 30% in an area ratio.

9. The retainer as set forth in claim 1, wherein at least one element forming the intermetallic compound is selected from
10 the group consisting of Mn, Fe, Si, Co, Ti, Nb, V, Zr, Al and Ni.

10. The retainer as set forth in claim 1, wherein the intermetallic compound comprises at least one of Mn_5Si_3 ,
15 Cu_8Zn_2Si and Cu_4ZnSi .

11. The retainer as set forth in claim 1, wherein said retainer is made by a centrifugal casting method.

20 *Spf* 12. The retainer as set forth in claim 2, wherein said
retainer is formed with the Cu alloy containing Pb 0.1 wt% or lower.

13. The retainer as set forth in claim 5, wherein the
25 content percent of the intermetallic compound is 8 to 30% in

the area ratio.

14. The retainer as set forth in claim 6, wherein the content percent of the intermetallic compound is 8 to 30% in
5 the area ratio.

15. The retainer as set forth in claim 7, wherein the content percent of the intermetallic compound is 8 to 30% in
the area ratio.

10

16. The retainer as set forth in claim 8, wherein the content percent of the intermetallic compound is 8 to 30% in
the area ratio.

15

17. The retainer as set forth in claim 1, wherein the Cu alloy is selected from at least one of brass, bronze,
phosphorus bronze and aluminum bronze.

A5